

See www.dnr.state.md.us/bay/cbnerr

publications for detailed List of Accomplishments



Chesapeake Bay

National Estuarine Research Reserve

Maryland

2007-2008 Accomplishments

The Chesapeake Bay National Estuarine Research Reserve in Maryland (CBNERR) protects close to 5,000 acres at three estuarine sites for use as living classrooms and living laboratories.

MISSION: Improve coastal resource management by increasing scientific understanding of estuarine systems and making estuarine research relevant, meaningful, and accessible to managers and stakeholders.



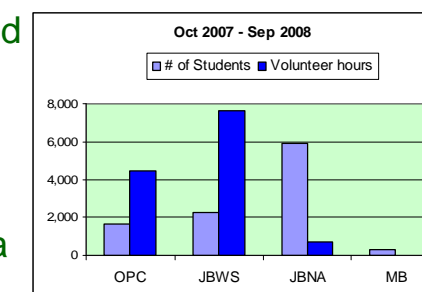
Greg Kearns banding osprey

Accomplishment Highlights

- **Climate Change Research** information added with new surface elevation table and marsh vegetation studies
- **Coastal Training Program** launched (October 2007)
- **CBNERR Management Plan** completed (2008)
- **Zooplankton Education Module** added
- **Water Quality and Weather Data** continue to be available online in real time and near time

Annual Statistics (Oct 2007-Sep 2008)

- 1,377 acres added for a total of 4,949 acres protected
- 28 research programs
- 10,109 students served by 601 education programs
- 12,770 volunteer hours delivered
- 2,370 training hours to decision-makers delivered via nine Coastal Training Program workshops



Sound Science...Finding Solutions...Wise Decisions



Mike Quinlan – Jug Bay volunteer

Research

- Surface elevation table (SET) studies resurrected to investigate effects of sea level rise
- Marsh emergent plant studies begun
- Water quality and weather monitoring continued with real time and near time data available online
- Biomonitoring for bay grasses, fish, amphibians, reptiles, and birds continued
- Bioblitzes held at Otter Point Creek and Jug Bay; a bioblitz is a 24-hour sampling spree for all kinds of plants and animals



Turtle telemetry

Education and Coastal Training

- Launched Coastal Training Program (CTP) for decision-makers (October 2008)
- Held nine training workshops covering sea level rise/climate change, development in the critical area, social marketing, and green initiatives
- Organized first Patuxent River Teen Paddle, a five day educational foray for teens
- Helped develop national curricula (Estuaries 101)
- Added zooplankton module to education programs using new wet lab



Wade Bradford teaching at Monie Bay



Wild rice seed collection at Jug Bay

Stewardship

- Wild rice restoration project
 - fencing
 - planting
 - resident Canada geese control
- Partnership with National Aquarium in Baltimore's Minority Student Summer Conservation Program. Student volunteers assisted in:
 - purple loosestrife control
 - phragmites mapping
 - osprey banding
- Plant vegetation studies to investigate effect of water level changes

Otter Point Creek (Harford County Anita C. Leight Estuary Center and Izaak Walton League Bosely Conservancy)

- Leight Estuary Center certified as a Maryland Green Center (May 2008)
- Completed Self-Guided Canoe Trail
- Launched invasive plant removal program, focusing on purple loosestrife and multiflora rose
- Initiated Home School Science and Nature program for ages 8-14
- Started a Student Mentoring Program with Aberdeen Science and Math Academy to assist with Senior Capstone Research Projects
- Began annual marsh bird breeding survey and marsh plant survey



Plankton ID at Finton Fun Lab

Jug Bay Natural Area/ Patuxent River Park

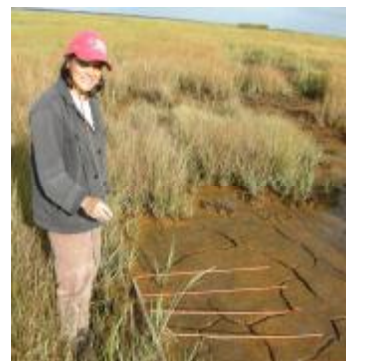
- Opened "Patuxent Water Trail," a cooperative project of state and local agencies, conservation organizations, and the business community
- Developed "Eyes on Jug Bay" water quality program for school groups
- Collected over 2500 pounds of trash at River Clean-Up Days
- Developed "Fall Hiking Spree"
- Hosted special activities for "National Trails Day"
- Conducted conservation and restoration activities for the "College Park Scholars," a community service day for incoming freshmen at University of MD
- Expanded wood duck nesting program as part of Maryland Wood Duck Initiative
- Banded 39 ospreys on 42 nest platforms

Jug Bay Wetlands Sanctuary/ Anne Arundel County

- Held first Sanctuary volunteer research conference
- Completed Plummer House renovation for Reserve office space and public contact center
- Contributed two chapters to a reference book on the ecology and science of freshwater tidal wetlands
- Held first Sanctuary Bioblitz
- JBWS and the Friends of Jug Bay worked with Anne Arundel County to (1) achieve purchase of 30-acre Wayson's Preserve (potential big box shopping center site) and (2) plan deer management strategy including managed hunt at Sanctuary
- Published three highly informative articles in *Marsh Notes* about local implications of sea level rise and global warming

Monie Bay

- Provided estuarine education to 300 fourth graders at the 15th Annual Wetlands and Wildlife Field Day
- Initiated emergent vegetation monitoring
- Held "Living Green to Save Green" workshop for the public at Somerset Intermediate School
- Supported Estuarine and Ocean Literacy courses in Somerset County high schools



P. Delgado surveying plants